

## ABSTRACT

The present invention provides methods and materials related to immediate early genes. Specifically, the invention provides isolated immediate early gene nucleic acid, cells that contain isolated immediate early gene nucleic acid, substantially pure polypeptides encoded by immediate early gene nucleic acid, and antibodies having specific binding affinity for a polypeptide encoded by immediate early gene nucleic acid. In addition, the invention provides cDNA libraries enriched for immediate early genes cDNAs, isolated nucleic acid derived from such cDNA libraries, and methods for treating conditions related to a deficiency in a neuron's immediate early gene responsiveness to a stimulus.

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